AMENDMENTS TO THE CLAIMS:

Please cancel claims 1-19 without prejudice. Please add new claims 20-29 as follows.

--20. (New) A process for obtaining tetrafluoroethylene thermoprocessable copolymer microspheres, said process comprising the steps of:

providing equipment formed by a coagulation apparatus, said equipment including a jacket for maintaining a temperature in the coagulation apparatus at a desired value, an outlet for the coagulated product, a coagulant inlet, a latex inlet, a filter, and a liquid outlet;

feeding at least one of latex and coagulant into respective inlets,

wherein the microspheres have a substantially spherical shape for at least 95% by weight, the average size of the microspheres being in the range of 25 µm-2 mm, the bulk density being in the range 0.5-1.1 g/cm³, preferably 0.55-1.0 g/cm³.

- 21. (New) A process according to claim 20, wherein in the initial conditions the coagulation apparatus is free from air, filled with water and a coagulant selected from acids, bases and salts.
- 22. (New) A process according to claim 20, wherein when the steady state is reached, the polymerization latex is continuously fed to the semi-continuous coagulation apparatus; separately a coagulant is fed continuously, while the water is taken in a continuous way from the upper part of the coagulation apparatus by a filter.
- 23. (New) A process according to claim 20, wherein the temperature is in the range of 5° 90°C, preferably 15° 70°C; the mixing rate ranges between 5 and 25 rps, preferably 10 and 20 rps.

24. (New) A process according to claim 20, wherein the latex and the coagulant are fed at least in two steps, preferably in three steps.

25. (New) A process according to claim 24, wherein:

in the first step the polymer concentration of the latex ranges from 25 g/litre to 300 g/litre, preferably 50-200 g/litre; the latex feeding flow-rate is in the range 5 1/hour - 45 1/hour; the time of this step is lower than 10 minutes;

the second step is optional and consists in ending the nucleation, preferably by feeding a polymer flow-rate corresponding to 10% of that fed in the first step;

in the third step the polymer concentration of the fed latex is between 25 g/litre and 300 g/litre, preferably between 50 and 200 g/litre; the latex feeding flow rate is in the range 5 1/hour - 30 1/hour; the time of this step is higher than 15 minutes.

- 26. (New) A process according to claim 20, wherein after a total residence time comprised between about 25 minutes and 10 hours, the fluoropolymer microspheres are discharged in a discontinuous way from the bottom of the coagulation apparatus; subsequently the microspheres are subjected to a drying step at a temperature in the range of 170° 280°C.
- 27. (New) Use of the microspheres according to claim 20 in powder coating and flame spraying applications.
- 28. (New) Use of the microspheres according to claim 20 in rotomoulding and rotolining applications.
- 29. (New) Use of the microspheres according to claim 20 as inert support in chromatographic separation columns in gaseous or liquid phase. --